

attribute comprising a code representing the character having no attribute, a display position, a character size, and a character code, and the intermediate code corresponding to the character having attributes comprising a code representing the character having attributes, a display position, a character size, a character code, a font attribute, and a display attribute.

IN THE DRAWINGS:

Attached is a Request for Approval of Drawing Corrections, with corrected Figures 24 - 26 submitted therewith. Upon approval of these corrected drawings, formal drawings will be timely filed.

REMARKS

The Office Action mailed February 28, 2001, has been received and carefully noted. This Response and Amendment completely responds to the Office Action. Claim 2 is amended to correct an informality. No new matter has been added or amendments made which narrow the scope of any elements of any claims. Claims 1-10 are pending in the application and submitted for reconsideration.

Figs. 24-26 were objected to on the grounds that the figures should be designated by a legend such as "PRIOR ART". Accordingly, corrected figs. 24-26 are submitted herewith along with a Request for Approval of Drawing Corrections. Applicants respectfully request that the object be withdrawn.

Claim 2 was objected to on the grounds that an unnecessary page break separates line 15 from would-be line 16. Claim 2 as submitted in the Amendment under

PCT Article 34, in the present application, is missing the last word of the claim, "attribute," and the period. Other than this discrepancy, the claim 2 in the Amendment under PCT Article 34 is identical to the original claim 2 found in the original international specification. Accordingly, claim 2 has been resubmitted in this response with the page break removed and the word --attribute-- added. Accordingly, Applicants respectfully request that the objection be withdrawn.

Claim 1 was rejected in the Office Action under 35 USC §102(e) as being anticipated by U.S. Patent No. 5,752,176 to Kimura et al. (hereinafter "Kimura"). It was asserted that Kimura generally discloses each and every element of claim 1. Applicants respectfully traverse the rejection and submit that claim 1 recites subject matter not shown or described by Kimura.

For example, claim 1 defines a method of processing data in an FM subcarrier data broadcasting receiver wherein, in displaying data constituting a reconstructive program, a code is decoded according to a coding system, and an intermediate code is generated which can be decoded even if specifications peculiar to FM sub-carrier broadcasting are not understood, in order to display control processing after the intermediate code is decoded. According to the claimed configuration, an FM sub-carrier data broadcasting receiver is provided which generates an intermediate code which does not relate to the specifications peculiar to FM sub-carrier data broadcasting, and therefore, can be decoded even when specifications peculiar to FM sub-carrier data broadcasting are not understood.

As a result of the claimed configuration, advantages of the present invention include making portions of the receiver, such as the display processing portion or the

drawing portion, which do not relate to the specifications peculiar to FM sub-carrier data broadcasting, easier to develop.

Kimura appears to describe a radio receiver and signal processing device, which is capable of tuning out multiplexed FM broadcasts superimposed on FM stereo signals. Kimura appears to describe a FM receiver that has a front end 10 that mixes carrier waves received from the antenna with a signal which is supplied from a local oscillator 16, and has a predetermined frequency corresponding to a requested broadcast station. A frequency signal for the requested station is converted to an intermediate frequency where $IF = 10.7 \text{ Mhz}$. See col. 4, lines 62-67. Each detected signal whose voltage levels corresponding to the frequency of the requested station is output from the detecting circuit 12. The output of detecting circuit 12 is supplied to an MPX 14, which demodulates stereo left and right signals, and is input into a band-pass filter (BPF) 30 for extracting signals having a frequency of 76 kHz, which is equal to the frequency of carrier waves for superimposed FM data. A decoder decodes the superimposed FM data extracted by the BPF 30. Some data superimposed on the detected signal are extracted by LMSK modulation. The extracted LMSK signal is applied to an LMSK modulating circuit 32 and then de-modulated to digital data. Next, a synchronism reproducing circuit 34 detects a block identification code (BIC) in a demodulated digital data. Kimura appears to describe a number of other features and steps for correcting the data and manipulating the data.

The Office Action seemed to suggest that adding a frequency signal to an intermediate frequency is equivalent to the generation of the intermediate code in the claimed invention. Details relating to possible intermediate codes are provided in the

present Specification from page 13 through page 40, and are completely different from any intermediate frequency described by Kimura. Moreover, Kimura does not disclose details of the display processing of data constituting a reconstructed program. As described above, Kimura only discloses that the front end 10 converts a frequency signal for the requested station to an intermediate frequency and extracts it. Furthermore, Kimura merely describes that data outputted from the error correcting circuit 36 are sequentially stored in a RAM 42, and that data are displayed on the display 44. Thus, Applicants submit that Kimura does not teach, show or otherwise suggest that, in displaying data constituting a reconstructed program, coded data is decoded according to a coding system corresponding to the coded data, and an intermediate code is generated which can be decoded even if specifications peculiar to FM sub-carrier data broadcasting are not understood. Accordingly, Applicants request that the rejection be withdrawn and claim 1 be allowed.

Claims 2-10 were rejected under 35 USC § 103(a) as being unpatentable over Kimura in view of the Applicants' own admissions. It was asserted that Kimura discloses an intermediate code corresponding to a character, but does not specifically disclose intermediate codes relating to size and position. It was asserted that in view of the discussion in the background section of the present specification, that it would have been obvious to one having ordinary skill in the art would modify Kimura to yield the present invention. Applicants respectfully traverse the rejection and submit that claims 2-10 recite subject matter not disclosed or suggested in Kimura or in the background section of the present specification.

As already described above regarding claim 1, nowhere does Kimura describe an intermediate code that can be decoded even if specifications peculiar to FM sub-carrier data broadcasting are not understood. Kimura merely mentions that character data can be included in superimposed data, in the context of specifications peculiar to FM sub-carrier data broadcasting. Therefore, there is no disclosure or suggestion that an intermediate code be generated as claimed. Thus, Applicants submit that claims 2-10, which depend on claim 1 and recite additional limitations, define subject matter that is more than sufficient to render the claims non-obvious over Kimura. Accordingly, Applicants request that the rejections be withdrawn and claims 2-10 be allowed.

In view of the above remarks, the Applicant respectfully submits that each of claims 1-10 recite subject matter which is neither disclosed nor suggested in the cited prior art. Applicant submits that this subject matter is more than sufficient to render the claimed invention nonobvious to a person of ordinary skill in the art. Applicant therefore requests that each of claims 1-10 be found allowable, and this application passed to issue.

If for any reason the Examiner determines that the application is now in condition for allowance, it is respectfully requested that the Examiner contact, by telephone, the Applicants' undersigned attorney at the indicated telephone number to arrange for an interview to expedite the disposition of this application.

In the event this paper is not timely filed, the Applicants respectfully petitions for an appropriate extension of time. Any fees for such an extension together with any additional fees may be charged to Counsel's Deposit Account No. 01-2300.

Respectfully submitted,



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Enclosure: Marked-Up Copy of the Amended Claims
Request for Approval of Drawing Corrections
Figs. 24-26

MARKED UP COPY OF AMENDED CLAIMS

2. (Amended) The method of processing data in the FM subcarrier data broadcasting receiver according to claim 1, wherein an intermediate code corresponding to a character includes an intermediate code corresponding to a character having no attribute and an intermediate code corresponding to a character having attributes, the intermediate code corresponding to the character having no attribute comprising a code representing the character having no attribute, a display position, a character size, and a character code, and the intermediate code corresponding to the character having attributes comprising a code representing the character having attributes, a display position, a character size, a character code, a font attribute, and a display attribute.